

Atty. Dkt. No. 047911-0103

***IN THE UNITED STATES PATENT AND TRADEMARK OFFICE***

Applicants: Jianjun WANG et al.  
Title: CARBON NANOSTRUCTURES AND METHODS OF  
MAKING AND USING THE SAME  
Appl. No.: 10/574,507  
Filing Date: April 3, 2006  
Examiner: Unassigned  
Art Unit: Unassigned

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §1.56**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 C.F.R. §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 C.F.R. §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 C.F.R. §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

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**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 C.F.R. §1.97(b), before the mailing date of the first Office Action on the merits.

**RELEVANCE OF EACH DOCUMENT**

The relevance of the foreign-language document is described in the present specification. An English translation of the foreign-language document is not readily available. However, the absence of such translation does not relieve the PTO from its duty to consider the submitted foreign language document (37 C.F.R. §1.98 and MPEP §609).

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 19-0741.

Respectfully submitted,

Date

September 5, 2006

By

Richard C. Peet

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Richard C. Peet

Attorney for Applicant

Registration No. 35,792

Receipt date: 09/05/2006

10574507 - GAU: 1793  
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Date Submitted: September 5, 2006  <i>(use as many sheets as necessary)</i>				Application Number	10/574,507
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				Group Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	1	of	6	Attorney Docket Number	047911-0103

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
/E.M./	A1	2003/0175462	A1	NISHINO et al.	09-18-2003	
/E.M./	A2	5,372,686	A	TIMBERLAKE et al.	12-13-1994	

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
/E.M./	A3	AFFOUNE et al., "Experimental evidence of a single nano-graphene," J. Chem. Lett., 2001, Vol. 348, pp. 17-20.	
/E.M./	A4	AIZAWA et al., "Bond softening in monolayer graphite formed on transition-metal carbide surfaces," Phy. Rev. B, 1990, Vol. 42, pp. 11469-11478.	
/E.M./	A5	AL-JISHI et al., Phys. Rev. B., 1982, Vol. 26, pp. 4514-4522.	
/E.M./	A6	ANDERSSON et al., "Structure and electronic properties of graphite nanoparticles," Phys. Rev. B., 1998, Vol. 58, pp. 16387-16385.	
/E.M./	A7	ANDO et al., "Preparation of carbon nanotubes by arc-discharge evaporation," Japanese Journal of Applied Physics, Part 2: Letters, 1993, Vol. 32, pp. L107-L109.	
	A8	ANDO et al., "Production of petal-like graphite sheets by hydrogen arc discharge," Carbon, 1997, Vol. 35, pp. 153-158.	
/E.M./	A9	BAUGHMAN et al., Science, 2002, Vol. 297, pp. 787-	
/E.M./	A10	BONARD et al., Solid-State Electron., 2001, Vol. 45, pp. 893-	
/E.M./	A11	CHEN et al., "Exfoliation of graphite flake and its nanocomposites," Carbon, 2003, Vol. 41, pp. 619-621.	

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/E.M./	A12	CHEN et al., "Preparation and characterization of graphite nanosheets from ultrasonic powdering technique," Carbon, 2004, Vol. 42, pp. 753-759.	
/E.M./	A13	CHEN et al., "Preparation of polystyrene/graphite nanosheet composite," Polymer, 2003, Vol. 44, pp. 1781-1784.	
/E.M./	A14	CHUNG et al., Diamond and Related Materials, 2001, Vol. 10, pp. 248-250	
/E.M./	A15	DECKMAN et al., Appl. Phys. Lett., 1982, Vol. 41, pp. 377-379	
/E.M./	A16	DECKMAN et al., J. Vac. Sci. Technol. B, 1983, Vol. 1, pp. 1109-1112	
/E.M./	A17	DECKMAN et al., J. Vac. Sci. Technol. B, 1988, Vol. 6, pp. 333-336	
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/E.M./	A22	GRÖNING et al., Solid-State Electron, 2001, Vol. 45, pp. 929-944	
/E.M./	A23	HASS, K.C., Phys. Rev. B., 1992, Vol. 46, pp. 139-150.	
/E.M./	A24	HOLLOWAY, Brian C., "Carbon Nanostructures - New Morphologies of an Old Element," BCPNNL Presentation, June 14, 2004, 43 pgs.	

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/E.M./	A25	HUANG et al., "Growth of large periodic arrays of carbon nanotubes," Appl. Phys. Lett., January 20, 2003, Vol. 82, No. 3, pp. 460-462.	
/E.M./	A26	HULTEEN et al., J. Phys. Chem. B, 1999, Vol. 103, pp. 3854-3863	
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/E.M./	A29	JISHI et al., Chem. Phys. Lett., 1993, Vol. 209, pp. 77-82.	
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/E.M./	A33	KUSAKABE et al., Phys. Rev. B: Condensed Matter and Materials Physics, 2003, Vol. 67, pp. 092406 (abstract).	
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/E.M./	A38	MICHAELSON, H.B., J. Appl. Phys., 1949, Vol. 21, pp. 536-540	
/E.M./	A39	MILNE et al., Diamond Relat. Mater., 2001, Vol. 10, pp. 260-264	
/E.M./	A40	NAKADA et al., "Edge state in grapheme ribbons: nanometer size effect and edge shape dependence," Phys. Rev. B, 1996, Vol. 54, pp. 17954-17961.	
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/E.M./	A50	PEIGNEY et al., "Specific surface area of carbon nanotubes and bundles of carbon nanotubes," Carbon, 2001, Vol. 39, pp. 507-514.	

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/E.M./	A59	SOLIN, S.A., Physica B&C, 1980, Vol. 99, pp. 443-452 (abstract).	
/E.M./	A60	TUINSTRA et al., "Raman spectrum of graphite," J. Chem. Phys., 1970, Vol. 53, pp. 1126-1130.	
/E.M./	A61	VICULIS et al., "A chemical route to carbon nanoscrolls, Science, 2003, Vol. 299, p. 1361.	
/E.M./	A62	WAKABAYASHI et al., "Electronic and magnetic properties of nanographite ribbons," Phys. Rev. B, 1999, Vol. 59, pp. 8271-8282.	
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